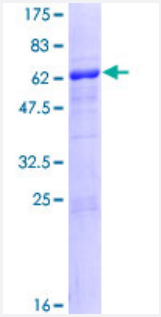
Full-Length

# NHEJ1 (Human) Recombinant Protein (P01)

Catalog # H00079840-P01 Size 25 ug, 10 ug

## Applications




## Specification

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| **Product Description** | Human NHEJ1 full-length ORF ( NP_079058.1, 1 a.a. - 299 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | MEELEQGLLMQPWAWLQLAENSLLAKVFITKQGYALLVSDLQQVWHEQVDTSVVSQRAKELNK RLTAPPAAFLCHLDNLLRPLLKDAAHPSEATFSCDCVADALILRVRSELSGLPFYWNFHCMLASP SLVSQHLIRPLMGMSLALQCQVRELATLLHMKDLEIQDYQESGATLIRDRLKTEPFEENSFLEQFMI EKLPEACSIGDGKPFVMNLQDLYMAVTTQEVQVGQKHQGAGDPHTSNSASLQGIDSQCVNQPE QLVSSAPTLSAPEKESTGTSGPLQRPQLSKVKRKKPRGLFS |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 59.7 |
| **Interspecies Antigen Sequence** | Mouse (73); Rat (75) |
| **Preparation Method** | *in vitro* wheat germ expression system |
| **Purification** | Glutathione Sepharose 4 Fast Flow |
| **Quality Control Testing** | 12.5% SDS-PAGE Stained with Coomassie Blue. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

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| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — NHEJ1

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|---|---|
| **Entrez GeneID** | 79840 |
| **GeneBank Accession#** | NM_024782.1 |
| **Protein Accession#** | NP_079058.1 |
| **Gene Name** | NHEJ1 |
| **Gene Alias** | FLJ12610, XLF |
| **Gene Description** | nonhomologous end-joining factor 1 |
| **Omim ID** | 611290 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Double-strand breaks in DNA result from genotoxic stresses and are among the most damaging of DNA lesions. This gene encodes a DNA repair factor essential for the nonhomologous end-joining pathway, which preferentially mediates repair of double-stranded breaks. Mutations in this gene cause different kinds of severe combined immunodeficiency disorders. [provided by RefSeq |
| **Other Designations** | Cernunnos\|XRCC4-like factor |

## Pathway

- Non-homologous end-joining

## Disease

- Breast cancer
- Carcinoma
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis
- Neoplasms
- Recurrence
- Werner syndrome